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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/23/2005

Bradley N Ruben 463 First Street Suite 5a Hoboken, NJ 07030 EXAMINER MILLER, WILLIAM L

ART UNIT

PAPER NUMBER

DATE MAILED: 06/23/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
00/5/13 051	04/06/2000	Wiliam S. Dalton	1622 0154	7000

TITLE OF INVENTION: BRUSH-SEAL DESIGNS FOR TURBINES AND SIMILAR ROTARY APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	09/23/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

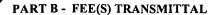
If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

	CE ADDRESS (Note: Use Block 1 for 06/23/2005	any change of address)	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
Bradley N Ruben 463 First Street Suite 5a Hoboken, NJ 07030				C	ertificate of Mailing or Trans this Fee(s) Transmittal is bein with sufficient postage for fir ail Stop ISSUE FEE address PTO (703) 746-4000, on the c	smission	
•						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAME	D INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/543,951	04/06/2000	Wiliam S. Dalton		S. Dalton	1633-015A	7898	
TITLE OF INVENTION: B	RUSH-SEAL DESIGNS FO	OR TURBINES AI	ND SIMILAR	ROTARY APPARATUS			
APPLN. TYPE	SMALL ENTITY	ISSUE F	EE ·	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400)	\$0	\$1400	09/23/2005	
EXAM	IINER	ART UN	IIT	CLASS-SUBCLASS	7		
MILLER, V	VILLIAM L	3677		277-355000			
"Fee Address" indica PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless recordation as set forth in (A) NAME OF ASSIGN		e of a Customer E PRINTED ON 7 elow, no assignee of this form is NO	(2) the nar registered 2 registere listed, no i THE PATENT data will app T a substitute	pear on the patent. If an assign for filing an assignment. CE: (CITY and STATE OR CO.	mes of up to If no name is 3 gnee is identified below, the d		
4a. The following fee(s) are			. Payment of	····	Corporation or other private gre	oup entity Government	
Issue Fee		•		in the amount of the fee(s) is	enclosed.		
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies		 -	The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	(from status indicated above MALL ENTITY status. See				ALL ENTITY status. See 37 C		
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Issu ublication Fee (if required) vords of the United States Pate	ue Fee and Publica will not be accepted ent and Trademark	tion Fee (if and d from anyone Office.	ny) or to re-apply any previou e other than the applicant; a re	sly paid issue fee to the applica gistered attorney or agent; or the	ation identified above. he assignee or other party in	
Typed or printed name			Registration No.				
This collection of informatic an application. Confidential submitting the completed ap this form and/or suggestions Box 1450, Alexandria, Virg Alexandria, Virginia 22313-	on is required by 37 CFR 1.3 ity is governed by 35 U.S.C. oplication form to the USPT for reducing this burden, shinia 22313-1450. DO NOT 1450.	11. The information 122 and 37 CFR O. Time will vary tould be sent to the SEND FEES OR (on is required 1.14. This col depending up the Chief Inform COMPLETED	to obtain or retain a benefit by lection is estimated to take 12 pon the individual case. Any nation Officer, U.S. Patent an D FORMS TO THIS ADDRES	the public which is to file (and minutes to complete, including comments on the amount of time defended and Trademark Office, U.S. Dep SS. SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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09/543,951	04/06/2000	Wiliam S. Dalton	1633-015A	7898	
759	06/23/2005		EXAM	EXAMINER	
Bradley N Ruben 463 First Street			MILLER, WILLIAM L		
Suite 5a			ART UNIT	PAPER NUMBER	
Hoboken, NJ 07030		·	3677		
•			DATE MAILED: 06/23/2009	5	

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	A P P	
	Application No.	Applicant(s)
Ned	09/543,951	DALTON ET AL.
Notice of Allowability	Examiner	Art Unit
	William L. Miller	3677
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic GHTS. This application is sub-	is application. If not included cation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>RCE filed 03-22-2005</u>	<u>5</u> .	
2. 🔀 The allowed claim(s) is/are <u>1-9</u> .		
3. \boxtimes The drawings filed on <u>04-06-2000</u> are accepted by the Exa	miner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application N	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the process.	con's Patent Drawing Review (. s Amendment / Comment or in84(c)) should be written on the che header according to 37 CFR 1	the Office action of drawings in the front (not the back) of 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ⊠ Interview Sum Paper No./Ma 8), 7. ⊠ Examiner's An	il Date <u>38</u> .
of Biological Material	9.	

Application/Control Number: 09/543,951

Art Unit: 3677

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bradley Ruben on 04-25-2005.

The application has been amended as follows:

In the claims:

Claim 1, line 5, before first recitation of "a" insert --wherein-- and after "segments" insert --are--;

Claim 1, line 7, before "said" insert --each--, delete "retractable", and after "segment" insert --being retractable and--;

Claim 1, line 18, change "(360°)" to --360°--; Claim 6, line 23, change "(360°)" to --360°--.

2. The following is an examiner's statement of reasons for allowance: Regarding claim 1, Brandon et al. (US#5810365) in view of Bagepalli et al. (US#6030175) discloses all of the limitations except for the inner and outer faces of the segment and the T-shaped extension spanning opposing common side ends such that at least one end of the brush seal extends past one of the common side ends. Moreover, as accurately argued by the applicant, Bagepalli does not disclose this common end as Fig. 3 shows the brush does not extend past the end defined by

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extension 48, and Figs. 2 and 4 show the brush does not extend past the end defined by 58 and 62. It would not have been obvious to one of ordinary skill in the art to further modify Brandon in view of Bagepalli such that the inner and outer faces of the segment and the T-shaped extension spanned opposing common side ends such that at least one end of the brush seal extended past one of the common side ends. Claim 6 includes the above allowable subject matter and is therefore allowable for at least the same reason(s).

3. Skinner et al. (US#5749584) discloses in col. 6, lines 51-67, retrofitting a brush seal to a retractable labyrinth seal (Fig. 9) is known, however Skinner also discloses the brush seal will not extend a continuous 360 degrees around the shaft (col. 7, lines 1-5) as claimed by the applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L. Miller whose telephone number is (571) 272-7068. The examiner can normally be reached on Tuesday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on 703 306 4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/543,951

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> William L. Miller Primary Examiner

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WLM